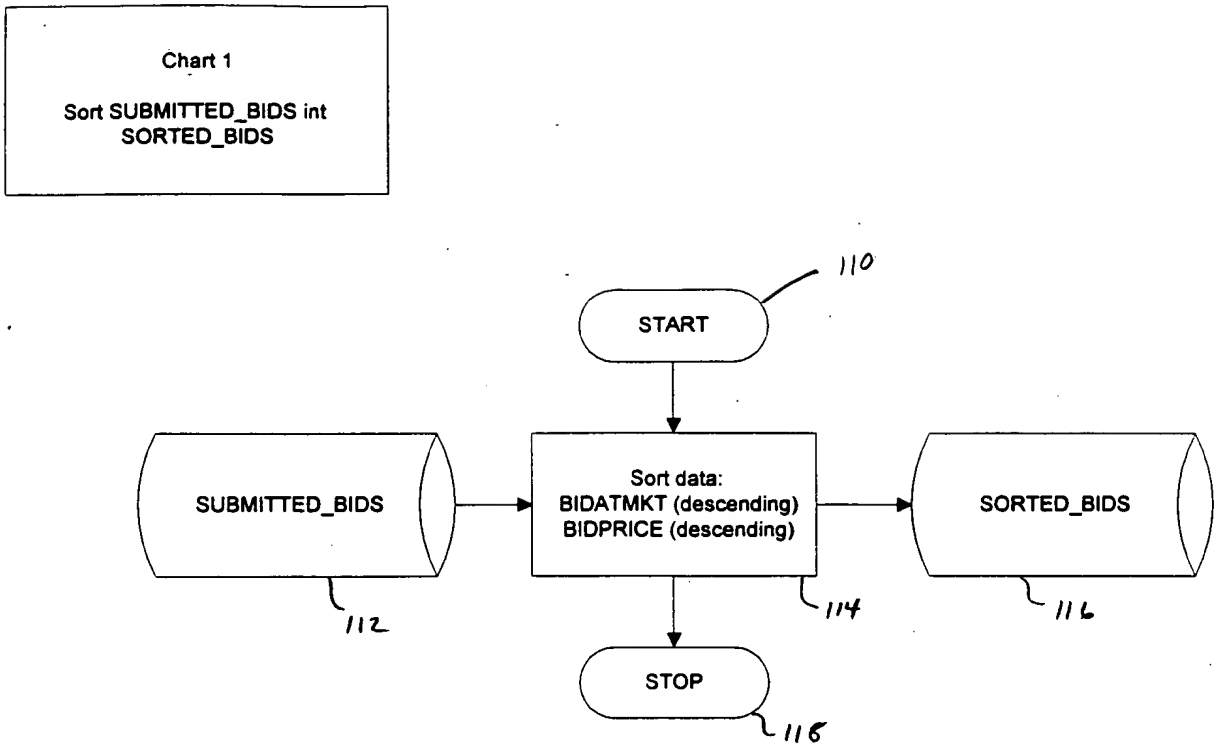
Chart 1
Sort SUBMITTED_BIDS int SORTED_BIDS
110
START
SUBMITTED_BIDS
Sort data:
BIDATMKT (descending)
BIDPRICE (descending)
SORTED_BIDS
112
114
116
STOP
118

Fig 1

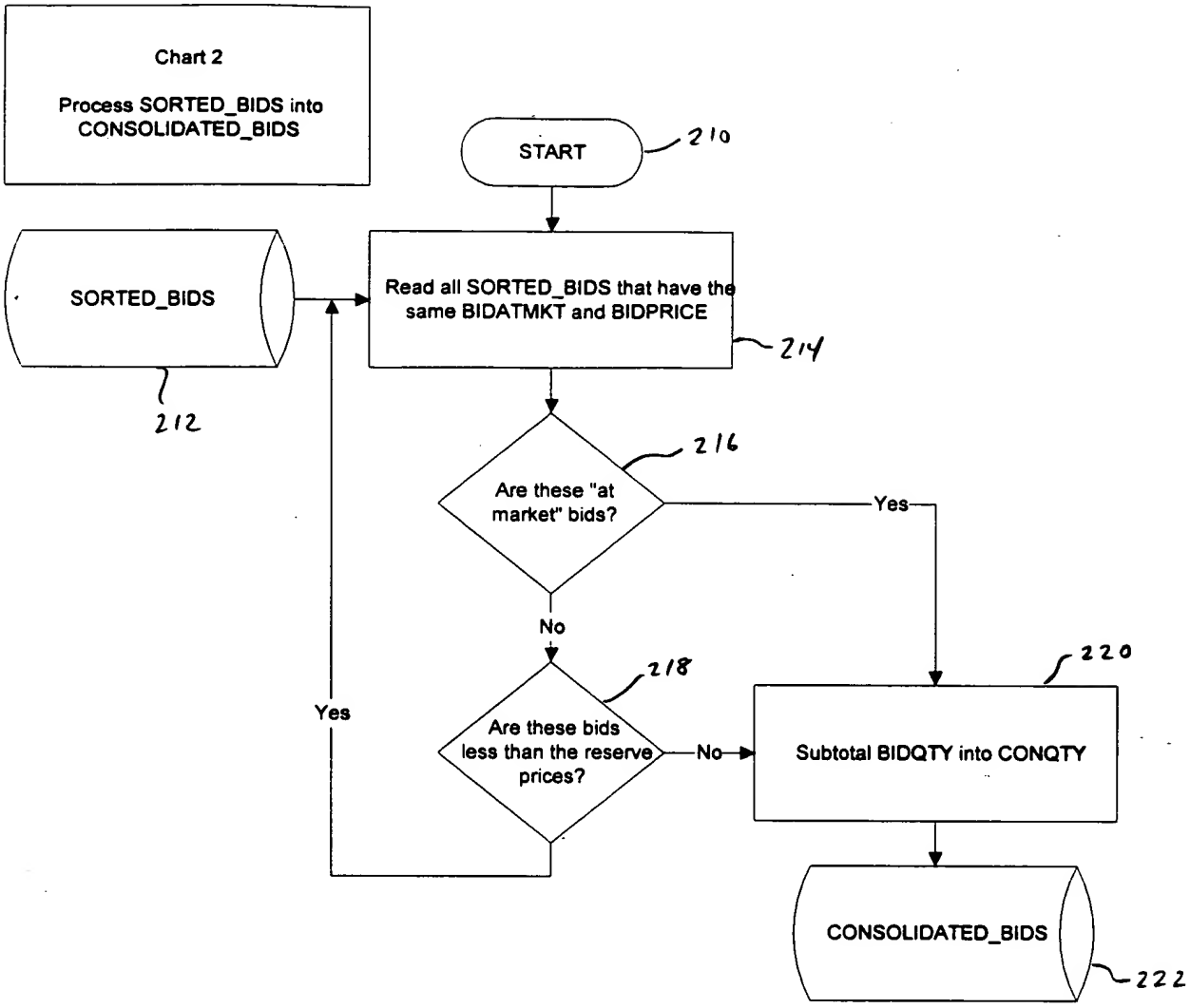
Chart 2
Process SORTED_BIDS into CONSOLIDATED_BIDS
START
210
SORTED_BIDS
212
Read all SORTED_BIDS that have the same BIDATMKT and BIDPRICE
214
Are these "at market" bids?
216
Yes
No
Are these bids less than the reserve prices?
218
Yes
No
Subtotal BIDQTY into CONQTY
220
CONSOLIDATED_BIDS
222

Fig 2

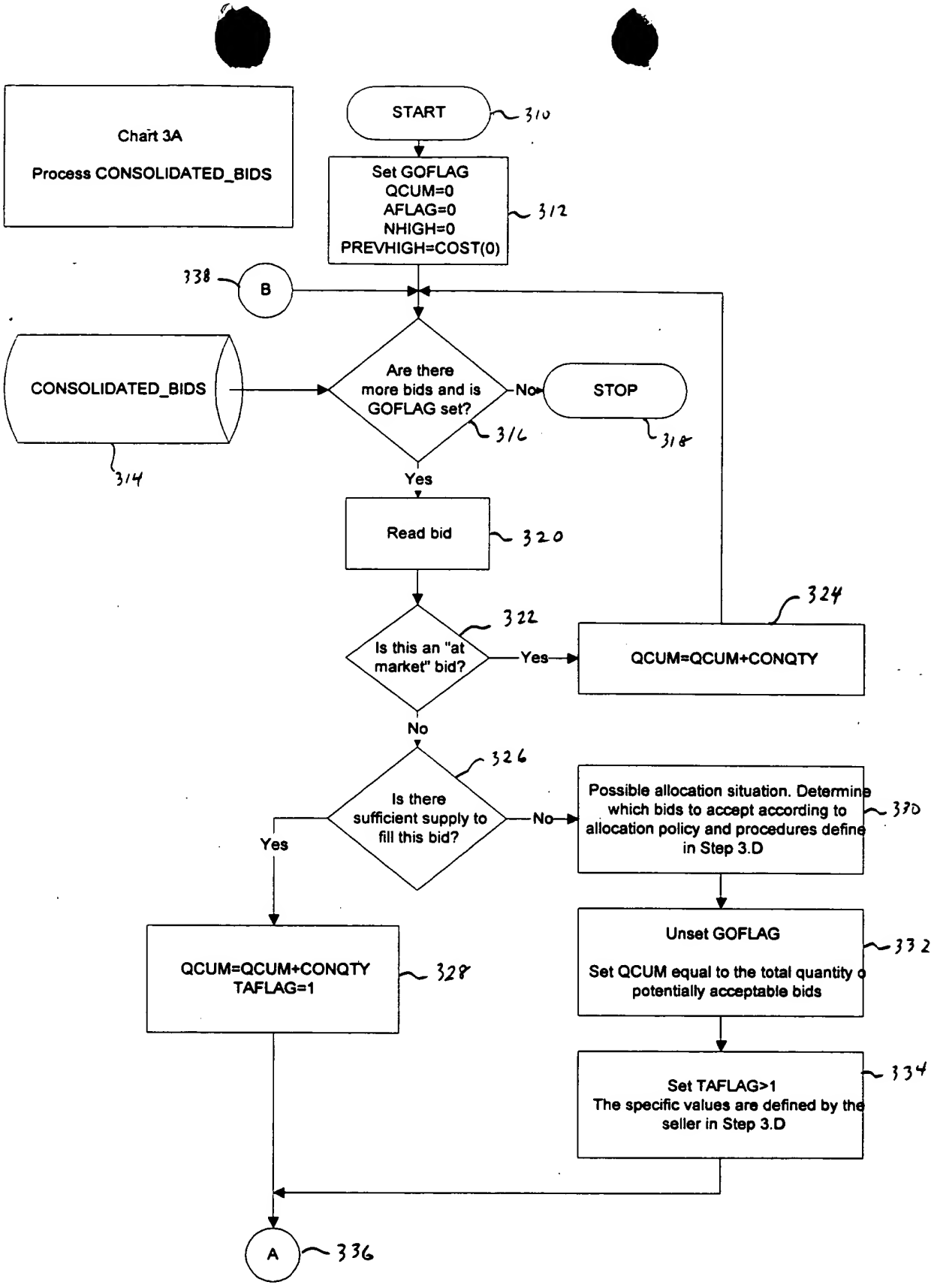
Chart 3A
Process CONSOLIDATED_BIDS
START
310
Set GOFLAG
QCUM=0
AFLAG=0
NHIGH=0
PREVHIGH=COST(0)
312
338
B
CONSOLIDATED_BIDS
314
Are there more bids and is GOFLAG set?
316
No
STOP
318
Yes
Read bid
320
Is this an "at market" bid?
322
Yes
QCUM=QCUM+CONQTY
324
No
Is there sufficient supply to fill this bid?
326
Yes
No
Possible allocation situation. Determine which bids to accept according to allocation policy and procedures define in Step 3.D
330
QCUM=QCUM+CONQTY
TAFLAG=1
328
Unset GOFLAG
Set QCUM equal to the total quantity o potentially acceptable bids
332
Set TAFLAG>1
The specific values are defined by the seller in Step 3.D
334
A
336

Fig 3A

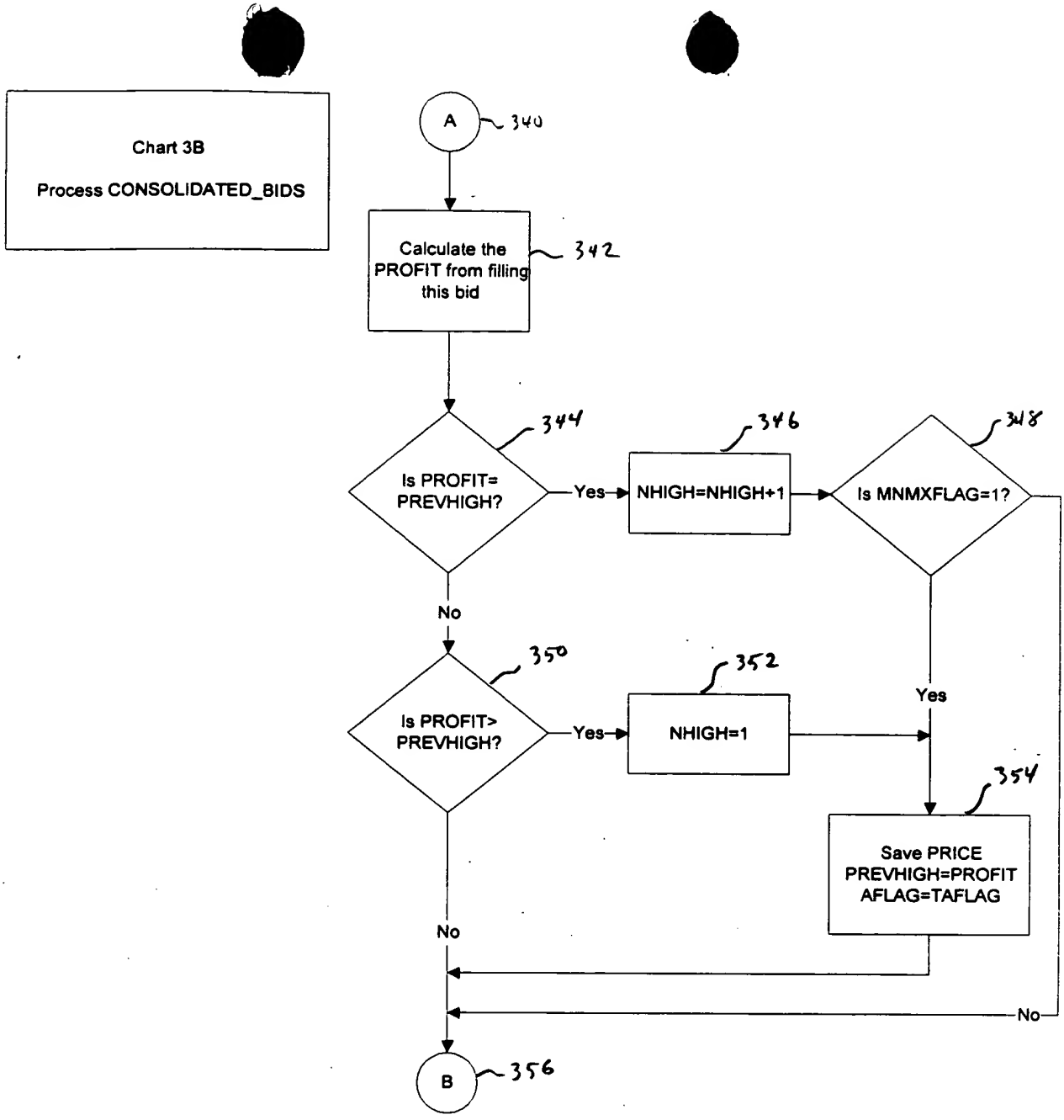
Chart 3B
Process CONSOLIDATED_BIDS
A
340
Calculate the PROFIT from filling this bid
342
Is PROFIT= PREVHIGH?
344
Yes
NHIGH=NHIGH+1
346
Is MNMXFLAG=1?
348
No
Is PROFIT> PREVHIGH?
350
Yes
NHIGH=1
352
Yes
Save PRICE PREVHIGH=PROFIT AFLAG=TAFLAG
354
No
No
B
356

Fig 3B

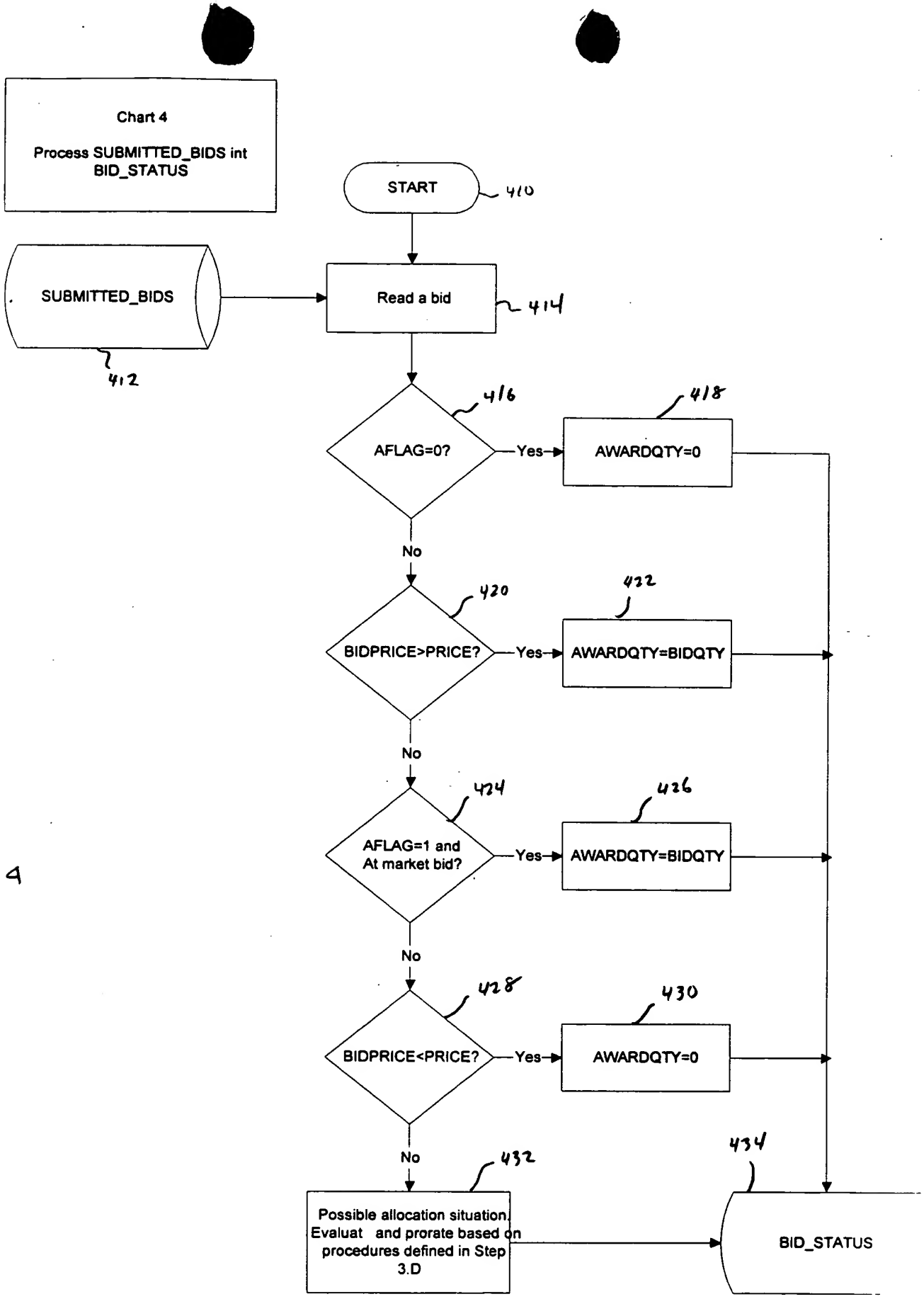
Chart 4
Process SUBMITTED_BIDS int BID_STATUS
START
410
SUBMITTED_BIDS
412
Read a bid
414
AFLAG=0?
416
Yes
AWARDQTY=0
418
No
BIDPRICE>PRICE?
420
Yes
AWARDQTY=BIDQTY
422
No
AFLAG=1 and At market bid?
424
Yes
AWARDQTY=BIDQTY
426
No
BIDPRICE<PRICE?
428
Yes
AWARDQTY=0
430
No
Possible allocation situation. Evaluat and prorate based on procedures defined in Step 3.D
432
BID_STATUS
434

Fig 4

FIGURE 5

	bid price	bid quantity
Bid No 1:	7200	100
Bid No 2:	6800	100
Bid No 3:	5200	100
Bid No 4:	3200	100
Bid No 5:	6000	100
Bid No 6:	8400	100
Bid No 7:	10000	300
Bid No 8:	8800	100
Bid No 9:	7600	100
Bid No 10:	3600	100
Bid No 11:	9600	100
Bid No 12:	2400	100
Bid No 13:	2800	100
Bid No 14:	9200	100
Bid No 15:	8000	100
Bid No 16:	6400	100
Bid No 17:	5600	100
Bid No 18:	4000	100
Bid No 19:	4800	100
Bid No 20:	4400	100

FIGURE 6

bid price		bid quantity	∑quantities	revenue (x1000)
10000	-No 7	300	300	3000
9600	-No 11	100	400	3840
9200	-No 14	100	500	4600
8800	-No 8	100	600	5280
8400	-No 6	100	700	5880
8000	-No 15	100	800	6400
7200	-No 1	100	900	6840
7600	-No 9	100	1000	7200
6800	-No 2	100	1100	7480
6400	-No 16	100	1200	7680
6000	-No 5	100	1300	7800
5600	-No 17	100	1400	7840
5200	-No 3	100	1500	7800
4800	-No 19	100	1600	7680
4400	-No 20	100	1700	7480
4000	-No 18	100	1800	7200
3600	-No 10	100	1900	6840
3200	-No 4	100	2000	6400
2800	-No 13	100	2100	5880
2400	-No 12	100	2200	5280